

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000317

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: D21H 27/00, D21H 19/12, D21H 19/82  
According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: D21H, C08J, B32B, C08J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, WPI

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 0155507 A1 (UPMKYMMENE CORPORATION), 2 August 2001 (02.08.2001), page 1, line 17 - line 22; page 1, line 25; page 1, line 29, page 2, line 22 - line 25, claim 1  --	1-2,4-7
X	US 4418119 A (MORROW ET AL), 29 November 1983 (29.11.1983), claims 1-2, column 1, line 51 - line 58  --	1-2,4-7,9-11
X	US 6193831 B1 (OVERCASH ET AL), 27 February 2001 (27.02.2001), see claims, column 3, line 62 - line 64, column 4, line 15 - line 17  --	1,4-6,8-9

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

29 Sept 2004

Date of mailing of the international search report

05-10-2004

Name and mailing address of the ISA/

Swedish Patent Office

Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

Authorized officer

ERIKA STENROOS/BS

Telephone No. +46 8 782 25 00

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000317

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5807781 A (REINHARDT ET AL), 15 Sept 1998 (15.09.1998)  --	1-14
A	US 4288497 A (TANAKA ET AL), 8 Sept 1981 (08.09.1981)  --	1-14
A	US 3403045 A (RICHARD C. ERICKSON ET AL), 24 Sept 1968 (24.09.1968)  --	1-14
A	EP 0307578 A1 (BEIERSDORF AKTIENGESELLSCHAFT), 22 March 1989 (22.03.1989)  --	1-14
P,A	EP 1323863 A1 (RICOH COMPANY LTD.), 2 July 2003 (02.07.2003)  -----	1-14

## INTERNATIONAL SEARCH REPORT

Information on patent family members

03/09/2004

International application No.

PCT/FI 2004/000317

WO	0155507	A1	02/08/2001	FI	20000151 A,V	27/07/2001
US	4418119	A	29/11/1983	NONE		
US	6193831	B1	27/02/2001	AT	216446 T	15/05/2002
				AU	710556 B	23/09/1999
				AU	4654896 A	24/07/1996
				CA	2208757 A	11/07/1996
				DE	69620737 D,T	28/11/2002
				EP	0801603 A,B	22/10/1997
				ES	2175065 T	16/11/2002
				JP	10511903 T	17/11/1998
				US	5981011 A	09/11/1999
				US	6132822 A	17/10/2000
				US	6187389 B	13/02/2001
				WO	9620832 A	11/07/1996
				US	5603996 A	18/02/1997
US	5807781	A	15/09/1998	DE	4425737 A,C	01/02/1996
				EP	0697484 A	21/02/1996
				FI	953486 A	22/01/1996
				JP	2683718 B	03/12/1997
				JP	8188992 A	23/07/1996
US	4288497	A	08/09/1981	CA	1142039 A	01/03/1983
				DE	3001254 A,C	17/07/1980
				FR	2446716 A,B	14/08/1980
				GB	2040734 A,B	03/09/1980
				JP	1314534 C	28/04/1986
				JP	55095567 A	19/07/1980
				JP	55103953 U	19/07/1980
				JP	60040379 B	10/09/1985
US	3403045	A	24/09/1968	NONE		
EP	0307578	A1	22/03/1989	DE	3727078 A	23/02/1989
				JP	1090279 A	06/04/1989
EP	1323863	A1	02/07/2003	JP	2003253600 A	10/09/2003
				US	20030170414 A	11/09/2003
				JP	2003340976 A	02/12/2003